



***Improving Mathematics Instruction  
by Focusing on Instructional Shifts that  
Raise Student Achievement***

**Day:** Wednesday, November 18, 2009

**Session:** 9:15 – 10:30 am

**Room:** Sachem West

**Presenter:**

**Mary Knuck** – [Mary.Knuck@azed.gov](mailto:Mary.Knuck@azed.gov)

Deputy Associate Superintendent-Standards-Based Best Practices  
Arizona Department of Education

**Session Description:**

During this session participants will explore the 2008 Mathematics Standards in context of proven instructional shifts for increased student achievement in mathematics. Time will be spent examining these instructional shifts along with classroom indicators of implementation.

**How the session addresses Innovation:**

Innovation is addressed through the 10 instructional shifts.

**Presenter Information:**

**Mary Knuck** is currently the Deputy Associate Superintendent of Standards-Based Best Practices at the Arizona Department of Education where she provides leadership in professional development supporting the implementation of the AZ Academic Standards and best teaching practices. She is currently working on her Doctorate in Curriculum and Instruction with an emphasis in mathematics education at Arizona State University. Mary's accomplishments in teaching include the Presidential Award for Excellence in Mathematics Teaching and National Board Certified Teacher.

**Session Materials**

[Classroom Instruction That Counts](#)